... differences of property fields between repeats

Tpot-0-IGY_24S [°C] - OC133 24S
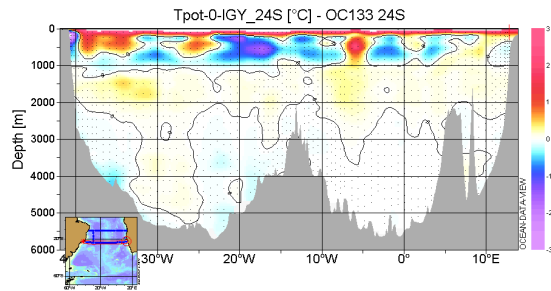
... geostrophic velocity sections

Geostr. Vel. (north comp.) [cm/s] - WOCE A1E
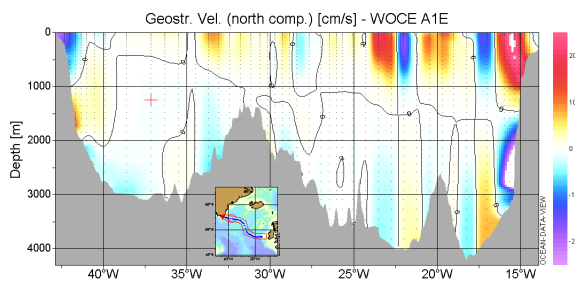
Ocean Data View is designed to be flexible and easy to use. ODV always displays a map of available stations on the screen and facilitates navigation through the data by letting the user select stations, sections, and isosurfaces with the mouse. The screen layout and various other configuration features can be modified easily, and favorite settings can be stored in configuration files on disk for later use.

ODV allows easy import of new data into collections and also allows easy export of some or all data from a collection. In addition to WOCE data, data from the World Ocean Atlas 1994 (U. S. National Oceanographic Data Center, NODC), World Ocean Database 1998 (NODC), data in NODC SD2 format, and data in a TAB-separated spreadsheet format can directly be incorporated into the ODV system. ODV maintains quality flags associated with each individual data value. These quality flags can be used by ODV as a data quality filter to exclude bad or questionable values from the analysis.

A review of the *Ocean Data View* software by Murray Brown can be found in Oceanography, 11(2), 19-21, 1998 (pdf version available on ODV web page).

eWOCE Gallery

Plots of more than 200 property distributions along WHP lines are provided in the *eWOCE* Gallery. You view these plots with your Internet browser via easy to use interactive map interfaces (see below), and you do not have to download the *eWoce* data files or software first. Visit the *eWOCE* Gallery at: http://www.awi-bremerhaven.de/GEO/eWOCE/Gallery. Choose one of the ocean basins and point the mouse to one of the WHP line identifiers. Then choose a property from the list.
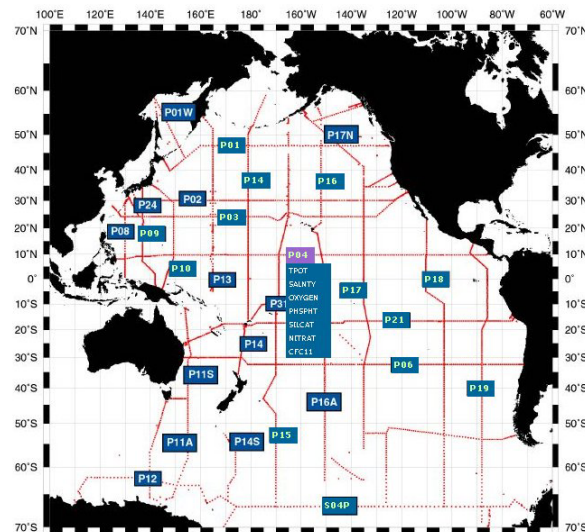
eWOCE is produced by:

R. Schlitzer,
Alfred Wegener Institute for Polar and Marine Research,
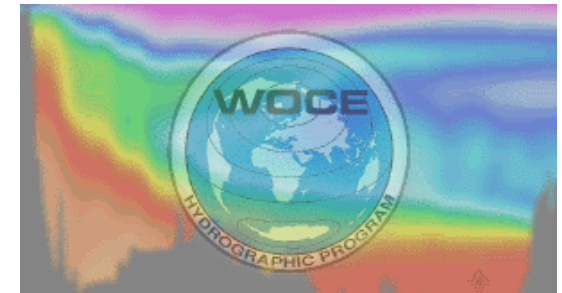Bremerhaven, Germany.

Please send comments and suggestions to:
rschlitzer@awi-bremerhaven.de

This flyer is available at: file://www.awi-bremerhaven.de/GEO/eWOCE/eWOCE_flyer.pdf

June/2000

Electronic Atlas of WOCE Hydrographic and Tracer Data

eWOCE

http://www.awi-bremerhaven.de/GEO/eWOCE

What is eWOCE

To facilitate the use of the global WOCE data sets, all available data of the WOCE Hydrographic Programme (WHP) and Upper Ocean Thermal (UOT) programme have been compiled in integrated, global or basin-wide data collections. When used with the *Ocean Data View* visualization software for Windows and SUN Solaris, these data sets constitute an „Electronic Atlas of WOCE Data" (*eWOCE*) that allows graphical display and interactive analysis of the data in many different ways. With extensive interactive controls such as user-defined plot configuration, zooming, auto-scaling, color adjustment, station/ sample selection, and automatic calculation of a large variety of derived variables this electronic atlas complements and surpasses printed atlases that are now in preparation.

eWOCE is part of the "WOCE Global Data, Version 2.0" CD set. The latest versions of the WHP bottle data and the *Ocean Data View* software are also available over the Internet at:

http://www.awi-bremerhaven.de/GEO/eWOCE.

eWOCE Data

eWOCE provides global data collections of WHP bottle and CTD data (*WoceBtl* and *WoceCTD*) and basin-wide data sets from the Upper Ocean Thermal programme (WoceAtlUOT, WocePacUOT, WoceIndUOT).

WoceBtl
The *WoceBtl* collection contains hydrographic, nutrient and tracer data for almost 10,000 stations (Figure 1). Most of these stations contain oxygen, phosphate, nitrate, and silicate data in addition to temperature and salinity. CFC observations are provided for about 2350 stations (about 25%), and more than 650 stations contain data for carbon

parameters. About 75% of the stations were occupied during the WOCE period between 1987 and 1998, while the rest of the stations are pre-WOCE and included for reference and for the analysis of temporal changes on decadal timescales.
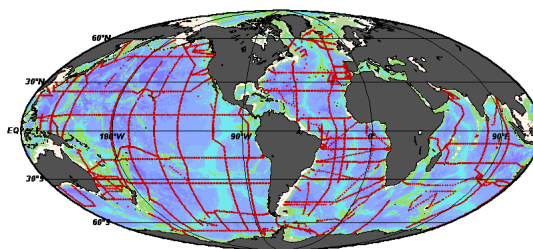

Figure 1: Map of eWOCE-WoceBtl stations containing hydrographic, oxygen, nutrient, and tracer data.

WoceCTD
The *WoceCTD* collection currently contains high-resolution temperature and salinity data for more than 4300 stations (Figure 2).
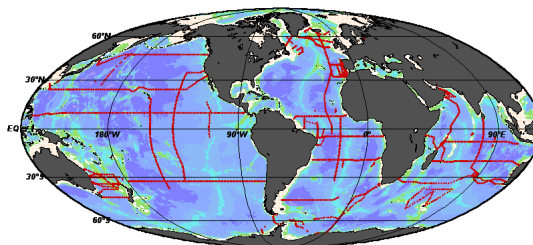

Figure 2: Map of eWOCE-WoceCTD stations.

Upper Ocean Thermal
The *eWOCE* collections *WoceAtlUOT, WocePacUOT, and WoceIndUOT* contain hydrographic data (mostly temperature) for the upper 500 to 800 m of the water column. There are more than 185,000 stations for the Atlantic, almost 425,000 for the Pacific and 63,000 for the Indian Ocean. Except for the Southern Ocean, the spatial and temporal coverage is excellent, and these data sets allow detailed investigations of climate variability during the 1990s.

Ocean Data View Software

To exploit the information in the *eWoce* data collections, to access the data and analyze and display them, you use the *Ocean Data View* (ODV) visualization software, which is available for Windows and SUN Solaris systems. The latest version of the ODV software, a description of its capabilities and instructions on how to install it on your computer are available over the Internet at:

http://www.awi-bremerhaven.de/GEO/ODV.

...property distributions along arbitrary cruise tracks
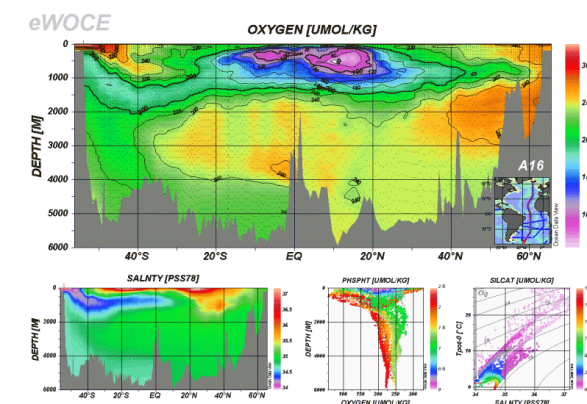
... property distributions on arbitrary surfaces